

Recombinant Human ILF3 protein, His & T7-tagged

Cat. No. ILF3-2710H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ILF3 aa. (Tyr672~Tyr891 (Accession # Q12906)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Tyr672~Tyr891
Description	This gene encodes a double-stranded RNA (dsRNA) binding protein that complexes with other proteins, dsRNAs, small noncoding RNAs, and mRNAs to regulate gene expression and stabilize mRNAs. This protein (NF90, ILF3) forms a heterodimer with a 45 kDa transcription factor (NF45, ILF2) required for T-cell expression of interleukin 2. This complex has been shown to affect the redistribution of nuclear mRNA to the cytoplasm. Knockdown of NF45 or NF90 protein retards cell growth, possibly by inhibition of mRNA stabilization. In contrast, an isoform (NF110) of this gene that is predominantly restricted to the nucleus has only minor effects on cell growth when its levels are reduced. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 9.3.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	ILF3 interleukin enhancer binding factor 3 [Homo sapiens (human)]
Official Symbol	ILF3
Synonyms	CBTF; DRBF; MMP4; MPP4; NF90; NFAR; NF110; NF90a; NF90b; NFAR2; TCP80; DRBP76; NF110b; NFAR-1; TCP110; MPHOSPH4; NF-AT-90; M-phase phosphoprotein 4; double-stranded RNA-binding protein, 76 kD; dsRNA binding protein NFAR-2/MPP4; interleukin enhancer binding factor 3, 90kD; interleukin enhancer binding factor 3, 90kDa; nuclear factor associated with dsRNA; nuclear factor of activated T-cells 90 kDa; nuclear factor of activated T-cells, 90 kD; translational control protein 80; interleukin enhancer-binding factor 3

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Gene ID	3609
mRNA Refseq	NM_001137673.1
Protein Refseq	NP_001131145.1
UniProt ID	Q12906

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